

Notice of Allowability

Application No.

10/670,280

Applicant(s)

DESBIOLLES ET AL.

Examiner

Art Unit

Rita Leykin

2837

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to ____.
2. ☒ The allowed claim(s) is/are 1-14.
3. ☒ The drawings filed on 26 September 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 3/8/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 9/2/04
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

RITA LEYKIN Primary examiner
PRIMARY EXAMINER Rita Leykin
9/2/04

Rita Leykin

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mrs. Rhonda Barton on 9/2/04.

The application has been amended as follows:

In claims 1, 8, 9, 10, 11, 13 and 14 in second paragraph, second line delete phrase "so-called" also delete quotation sign in phrase "revolution pip".

Renumber claims 12, 13 and 14 as follows:

- claim #12 to # 14;
- claim #13 to # 12;
- claim # 14 to #13.

2. The following is an examiner's statement of reasons for allowance. The prior art made of record in the attached form PTO-892 considered to be pertinent to the submitted application.

La Croix et al. US # 5,898,301 disclose a magnetic encoder for producing an index signal. Wherein magnetic poles are regularly spaced along the path to form a magnetic track. Some of the magnetic poles are separated by regular pole junctions that are aligned uniformly, with respect to the path of the magnetic track. At least two of the magnetic poles are separated by skewed irregular pole junction aligned such that a

sensor near an edge of magnetic track will sense a wide pole and a narrow pole to allow an index signal to be produced.

Jacobsen et al. US # 6,170,162 teach a rotary displacement system using differential measuring which includes an axle being mounted to rotate about its long axis. An emitter disk is mounted on the axle to define a plurality of concentric tracks circumscribing the axle to rotate as the axle rotates, with each of the tracks being segmented to define a plurality of spaced-apart, conductive sections for producing electric fields when energized. A detector is disposed adjacent to the tracks of the emitter disk and includes a plurality of sensors, each positioned adjacent a respective track to detect the electric fields of the respective track as the axle and tracks are rotated. The detector produces signals representing the detection of the electric fields as the emitter disk is rotated, and these signals provide an indication of the rotary displacement of the tracks and thus the axle.

However, none of the prior art teaches or suggest in combination:

Claimed combination of limitations such as:

- The sensor (3) comprising an electronic circuit able from the signals S1, S2 and S3 to deliver two square digital position signals (A,B) in quadrature which represent the angular position of the rotor (1) and revolution pip signal C in form of N*M pulses per revolution of the coder (2) and the M singularities (2b1) being angularly distributed so that the revolution pip signal C is arranged so as in combination with the signals A and B, to define the binary sequences of angular length less than that of

sector (2c) and which represent the absolute angular position of the coder(2) on a sector (2c).

- An absolute angular position associated with the binary sequence;
- The state of the switching logic which is adapted to the angular position

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita Leykin whose telephone number is (571)272-2066. The examiner can normally be reached on Monday-Friday 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571)272-2107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

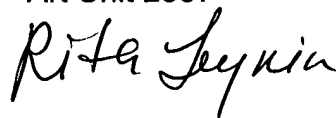
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Rita Leykin
Primary Examiner
Art Unit 2837

R.L.

A handwritten signature in black ink that reads "Rita Leykin". The signature is written in a cursive style, with the first name "Rita" and last name "Leykin" clearly legible.